UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,992	11/26/2003	Allen Yang	105479-58452 (644-034)	7994
26345 GIBBONS P.C.	7590 10/22/2008	3	EXAMINER	
ONE GATEWA NEWARK, NJ	AY CENTER		LAI, MICHAEL C	
INEWAKK, INJ	07102		ART UNIT	PAPER NUMBER
			2457	
			NOTIFICATION DATE	DELIVERY MODE
			10/22/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

thibbits@gibbonslaw.com abriggs@gibbonslaw.com IPDocket@gibbonslaw.com

		Applica	tion No.	Applicant(s)	Applicant(s)	
		10/723,	992	YANG ET AL.		
Office Action Summary		Examin	er	Art Unit		
		MICHAE	EL C. LAI	2457		
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet w	ith the correspondence a	ddress	
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum stare to reply within the set or extended period for reply peply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF 7 of 37 CFR 1.136(a). In no a nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUNI event, however, may a will expire SIX (6) MOI pplication to become A	CATION. reply be timely filed  NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).		
Status						
1)⊠ 2a)⊠	Responsive to communication(s) file This action is <b>FINAL</b> .  Since this application is in condition closed in accordance with the practi	2b)∏ This action is for allowance excep	ot for formal mat	·	ne merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b>	Claim(s) <u>2-48</u> is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>2-48</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers	re withdrawn from o				
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or lection to the drawing(s) the correction is requ	be held in abeya lired if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	, ,	
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	'TO-948)	Paper No(	Summary (PTO-413) s)/Mail Date Informal Patent Application 		

Art Unit: 2457

#### **DETAILED ACTION**

1. This office action is responsive to communication filed on 7/7/2008.

Claims 2-48 have been examined.

### Response to Amendment

2. The examiner has acknowledged the amended claims 2, 3, 7, 10, 11, 25-38, and 48. Claim objections to claims 29-31, 33-35, 37-38, and 48 have been overcome and withdrawn accordingly. Claims 2-48 are pending.

### Response to Arguments

 Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

#### Claim Objections

4. Claim 2 is objected to because of the following informalities: "(KVM)" in line 15 should be "KVM", "said least one" in line 16 should be "said at least one."
Appropriate correction is required.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2457

Claims 2-4, 8-15, 17, 20, 22-23, 25-29, 33-39, 41, 45-47 are rejected under 35
 U.S.C. 102(e) as being anticipated by Comstock et al. (US 2004/0083266 A1, hereinafter Comstock).

Regarding claim 2, Comstock discloses a remote management system [FIG. 1-2] comprising:

a computer workstation including a keyboard, cursor control device and video display [para. 0023];

at least one remote device including a keyboard, a video, and a mouse (KVM) interface [para. 0034];

at least one remote serial device including a serial user interface [para. 0030];

a remote management unit coupled to said workstation and said at least one remote device and one remote serial device [FIG. 1, MCU 20];

first communication means for providing bi-directional communication between said remote management unit and said workstation [FIG. 1, gateway 30 and PSTN 60; para. 0020, 0021]; and

second communication means for providing bi-directional communication between said remote management unit and said at least one remote device or said at least one remote serial device [FIG. 1, MCU 20 and Network 80; para. 0020, 0021];

wherein said remote management unit enables switching of said second communications means between said remote management unit and said

(KVM) interface of said at least one remote device or said serial user interface of said least one remote serial device [para. 0012].

Regarding claim 3, Comstock further discloses wherein said workstation controls a power source of at least one of said at least one remote device or one of said at least one remote serial device through said remote management unit [para. 0020, 0021].

Regarding claim 4, Comstock further discloses wherein access to said remote management unit by said workstation is controlled by unique passwords or authentication information [para. 0027].

Regarding claim 8, Comstock further discloses wherein said remote management unit includes at least one header circuit for selective communication between at least one KVM port of said remote management unit and at least one video port of said at least one remote device [para. 0020, 0021].

Regarding claim 9, Comstock further discloses wherein said header circuit includes a video switch, and at least one receiver transmitter circuit, wherein said receiver transmitter circuit converts parallel and serial signals [para. 0030-0032, 0034-0035].

Regarding claim 10, Comstock further discloses wherein said remote management unit includes at least one frame grabber circuit for digitizing video signals [para. 0030, 0035].

Application/Control Number: 10/723,992

Regarding claim 11, Comstock further discloses wherein said framer grabber circuit converts analog video signals to digital video signals [para. 0030-0032, 0035-0036].

Regarding claim 12, Comstock further discloses wherein said remote management unit includes a frame grabber circuit for correcting an image produced by said video signals [para. 0065-0067].

Regarding claim 13, Comstock further discloses wherein said remote management unit includes at least one local KVM port [para. 0020, 0021].

Regarding claim 14, Comstock further discloses wherein said remote management unit includes at least one video processor circuit for compressing video signals [para. 0038, 0065].

Regarding claim 15, Comstock further discloses wherein said video processor circuit includes at least one video receiving circuit for receiving video signals from at least one CPU [para. 0030-0032, 0035-0036].

Regarding claim 17, Comstock further discloses wherein said video processor circuit includes at least one frame buffer circuit for storing video frames indicative of said video signals [para. 0065, 0066].

Regarding claim 20, Comstock further discloses wherein said video processor circuit includes at least one memory circuit coupled to said microprocessor for storing data [para. 0065, 0066].

Application/Control Number: 10/723,992

Art Unit: 2457

Regarding claim 22, Comstock further discloses wherein said remote management unit includes at least one modem module for demodulating signals received by a modem [para. 0038].

Page 6

Regarding claim 23, Comstock further discloses wherein said first or second communication means is selected from the group consisting of a LAN, a WAN, a wireless connection, a modem, a direct modem connection, and the Internet [para. 0020, 0021].

Regarding claim 25, Comstock discloses an apparatus [FIG. 1, MCU 20] for coupling a workstation to one or more remote devices and one or more remote serial devices, said apparatus comprising:

a communication circuit for transmitting signals to and receiving signals from said workstation via a communication medium [FIG. 1, gateway 30 and PSTN 60; para. 0020, 0021];

a serial communication circuit for transmitting serial data to and receiving serial data signals from one or more of said remote serial devices [FIG. 1, MCU 20 and Network 80; para. 0020, 0021];

a keyboard, video, mouse (KVM) circuit for transmitting and receiving KVM signals from one or more of said remote devices [para. 0034]; and a central processing circuit for controlling transmission of said signals between at least one said communication circuit, said serial communication circuit and said KVM circuit [para. 0022].

Regarding claim 26, Comstock further discloses wherein said one or more remote devices and said one or more remote serial devices are powered by power sources [para. 0020, 0022].

Regarding claim 27, Comstock further discloses wherein said apparatus is connected to said power sources [para. 0020, 0022].

Regarding claim 28, Comstock further discloses wherein said workstation controls said power sources through said apparatus [para. 0020, 0021].

Regarding claim 29, Comstock further discloses wherein access to said apparatus by said workstation is controlled by unique passwords or authentication information [para. 0027].

Regarding claim 33, Comstock further discloses wherein said apparatus includes at least one header circuit for selective communication between at least one KVM port and at least one video port of said remote devices [para. 0020, 0021].

Regarding claim 34, Comstock further discloses wherein said header circuit includes a video switch, and at least one receiver transmitter circuit, wherein said receiver transmitter circuit converts parallel and serial signals [para. 0030-0032, 0034-0035].

Regarding claim 35, Comstock further discloses wherein said apparatus includes at least one frame grabber circuit for digitizing and correcting images produced by video signals [para. 0030, 0035].

Regarding claim 36, Comstock further discloses wherein said frame grabber circuit converts analog video signals to digital video signals [para. 0030-0032, 0035-0036].

Regarding claim 37, Comstock further discloses wherein said apparatus includes at least one local KVM port [para. 0020, 0021].

Regarding claim 38, Comstock further discloses wherein said apparatus includes at least one video processor circuit for compressing video signals [para. 0038, 0065].

Regarding claim 39, Comstock further discloses wherein said video processor circuit includes at least one circuit to receive video signals from said central processing circuit [para. 0030-0032, 0035-0036].

Regarding claim 41, Comstock further discloses wherein said video processor circuit includes at least one frame buffer circuit for storing video frames indicative of said video signals [para. 0065, 0066].

Regarding claim 45, Comstock further discloses wherein said apparatus includes at least one modern module for demodulating signals received by modern [para. 0038].

Regarding claim 46, Comstock further discloses wherein said communication medium is at least one selected from the group consisting of a LAN, a WAN, a wireless connection, a modem, a direct modem connection, and the Internet [para. 0020, 0021].

Art Unit: 2457

Regarding claim 47, Comstock further discloses wherein said signals transmitted and received by said workstation are at least one control signal selected from the group consisting of keyboard, video, mouse, serial or power [para. 0020, 0022].

#### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 5 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Comstock as applied to claim 2, and in view of Watkins (US 2002/0198978 A1, hereinafter Watkins).

Regarding claims 5 and 30, Comstock fails to specifically disclose redundant power supply. However, Watkins teaches a back-up redundant power supply [para. 0033]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Watkins' teaching into Comstock's system for the purpose of preventing total power loss by using a redundant power supply, thereby providing a reliable power supply system.

 Claims 6-7 and 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Comstock as applied to claim 2, and in view of DeAnna et al. (US 2003/0084056 A1, hereinafter DeAnna). Application/Control Number: 10/723,992

Art Unit: 2457

Regarding claims 6 and 7, Comstock fails to disclose the option menu circuit including identification of said at least one remote device. However, DeAnna teaches in a remote management system uses a convenient menu to change a server device [para. 0047]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate DeAnna' teaching into Comstock's system for the purpose of providing a menu driven environment by using an option menu including identification of remote device, thereby providing a more user friendly system.

Page 10

Regarding claims 31 and 32, Comstock fails to disclose the option menu circuit including identification of said at least one remote device. However, DeAnna teaches in a remote management system uses a convenient menu to change a server device [para. 0047]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate DeAnna' teaching into Comstock's system for the purpose of providing a menu driven environment by using an option menu including identification of remote device, thereby providing a more user friendly system.

10. Claims 16, 18-19, 21, 40, 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Comstock as applied to claim 2, and in view of Coleman (US 2004/0042547 A1, hereinafter Coleman).

Regarding claims 16 and 40, Comstock teaches substantially all the limitation in claim 14, but fails to disclose wherein said video processor circuit includes at least one pixel pusher circuit for storing red, green and blue video signal

components of said video signals. However, Coleman teaches using a pixel pusher 221 to store A/D converter 201 outputs pixels representing the red component, green component and blue component of the digitized signal [FIG. 2 and para. 0118]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Coleman' teaching into Comstock's system for the purpose of storing red, green and blue video signal components of video signals by using a pixel pusher, thereby providing a system of effectively digitizing and compressing the video output of a computer such that it may be monitored and controlled from a remote location.

Regarding claims 18 and 42, Comstock teaches substantially all the limitation in claim 14, but fails to disclose using Joint Bi-level Image experts Group (JBIG) compression for video processor circuit compresses video signals. However, Coleman teaches using the JBIG lossless compression technique for compressing video data [para. 0075]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Coleman' teaching into Comstock's system for the purpose of saving network bandwidth by using a lossless compression algorithm such as JBIG, thereby providing a system of effectively digitizing and compressing the video output of a computer such that it may be monitored and controlled from a remote location.

Regarding claims 19 and 43, Comstock teaches substantially all the limitation in claim 15, but fails to disclose wherein said video processor circuit includes at least one microprocessor for controlling at least one of a frame buffer circuit,

pixel pusher circuit and JBIG compression. However, Coleman teaches using a microprocessor for controlling the frame buffer, pixel pusher and JBIG [FIG. 2 and para. 0118]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Coleman' teaching into Comstock's system for the purpose of controlling video digitization/compression by using a microprocessor, thereby providing a system of effectively digitizing and compressing the video output of a computer such that it may be monitored and controlled from a remote location.

Regarding claims 21, Comstock teaches substantially all the limitation in claim 14, but fails to disclose wherein said video processor circuit includes at least one switch for outputting video signals. However, Coleman teaches compression and digitization of computer video through a video switch [para. 0021]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Coleman' teaching into Comstock's system for the purpose of allowing the transfer of video data over extended distances at increased speed of transfer by using a video switch, thereby providing a better remote monitoring/management system [para. 0021].

Regarding claims 44, Comstock teaches substantially all the limitation in claim 38, but fails to disclose wherein said video processor circuit includes at least one switch for outputting signals to an Ethernet port or a modem port.

However, Coleman teaches compression and digitization of computer video through a video switch [para. 0021]. It would have been obvious to a person of

ordinary skill in the art at the time the invention was made to incorporate Coleman's teaching into Comstock's system for the purpose of allowing the transfer of video data over extended distances at increased speed of transfer by using a video switch, thereby providing a better remote monitoring/management system [para. 0021].

11. Claims 24 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Comstock as applied to claim 2, and in view of Kim et al. (US 2003/0055922 A1, hereinafter Kim).

Regarding claim 24, Comstock teaches substantially all the limitation in claim 2, but fails to disclose wherein said remote management unit includes reset circuitry controllable by said workstation for resetting said remote management unit. However, Kim teaches a reset circuitry provided for resetting previously generated identifier values stored in the special function register [para. 0050]. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate Kim's teaching into Comstock's system for the purpose of controlling the remote management unit via a reset circuit, thereby providing a better remote controlling/management system.

Regarding claim 48, Comstock teaches substantially all the limitation in claim 25, but fails to disclose wherein said apparatus includes a reset circuit for resetting said apparatus. However, Kim teaches a reset circuitry provided for resetting previously generated identifier values stored in the special function register [para. 0050]. It would have been obvious to a person of ordinary skill in

Art Unit: 2457

the art at the time the invention was made to incorporate Kim's teaching into Comstock's system for the purpose of controlling the remote management unit via a reset circuit, thereby providing a better remote controlling/management system.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Art Unit: 2457

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Lai whose telephone number is (571) 270-3236. The examiner can normally be reached on M-F 8:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Lai 120CT2008

/Yves Dalencourt/ Primary Examiner, Art Unit 2457